

KS-15912, L1 FLUORESCENT LIGHTING FIXTURES PIECE-PART DATA AND REPLACEMENT PROCEDURES

1. GENERAL

1.01 This section covers the information necessary for ordering parts to be used in the maintenance of the KS-15912, L1 fluorescent lighting fixtures for power and engine room lighting. It also covers approved procedures for replacing these parts.

1.02 The KS-15912 fluorescent lighting fixtures are equipped with "V" slot twist-type lampholders and employ ballasts to utilize rapid start lamps. No starters are required.

1.03 Part 2 of this section covers the piece-part numbers and the corresponding names of the parts which it is practicable to replace in the field in the maintenance of the above apparatus. No attempt should be made to replace parts not designated. Part 2 also contains explanatory figures showing the different parts. This information is called Piece-part Data.

1.04 Part 3 of this section covers the approved procedures for the replacement of the parts covered in Part 2. This information is called Replacement Procedures.

2. PIECE-PART DATA

2.01 The figures included in this part show the replaceable parts in their proper relation to the other parts of the apparatus. The part numbers of the various parts are given together with the names listed by the Western Electric Company Merchandise Department. When these names differ from those in general use in the field, the latter names, in some instances, are shown in parentheses.

2.02 Information enclosed by parentheses () is not ordering information. This information may be references to notes, parts referred to in other portions of the section and not considered replaceable, or part names in general use in the field if these names differ from those assigned by the manufacturer.

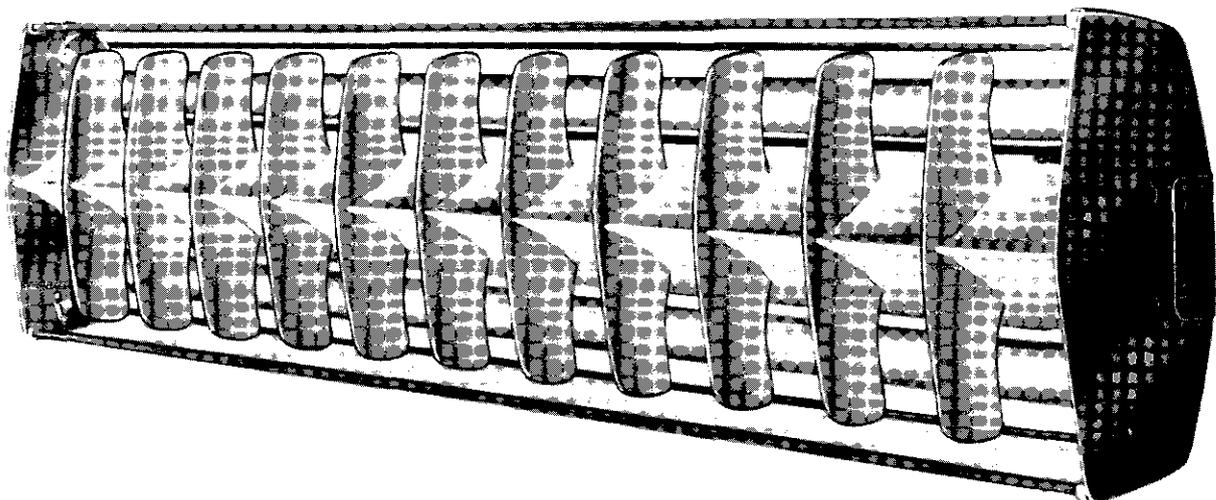


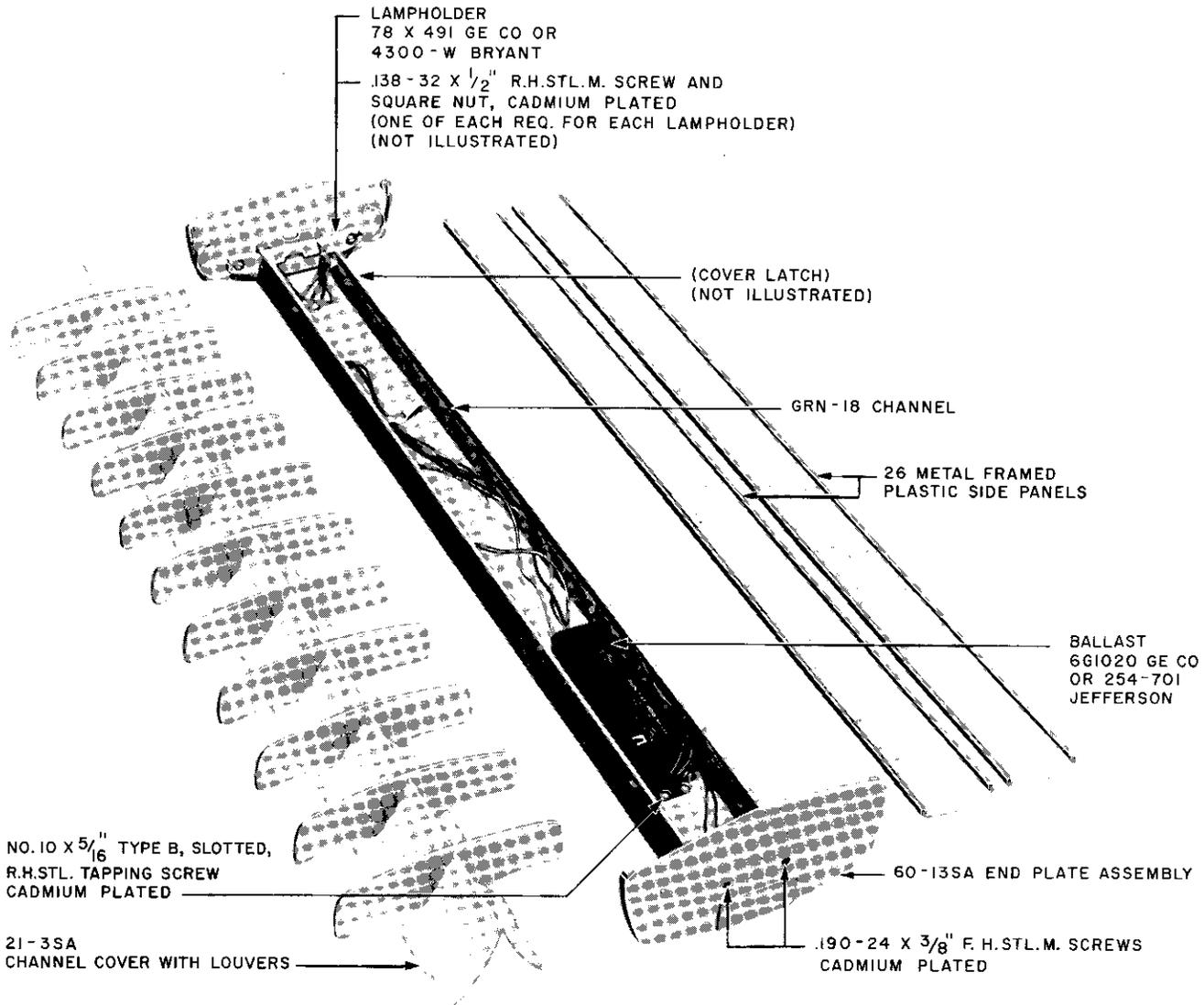
Fig. 1 - KS-15912 Fluorescent Fixture — View Showing Fixture Assembled With Lamps in Place

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2.03 When ordering parts for replacement purposes, give the part number, the name of the part, and the manufacturer, and state that the part is for the KS-15912 fluorescent lighting fixture. For example: "GRN-18 Channel, The Wakefield Company, for the KS-15912 Fluorescent Lighting Fixture." The part numbers and names specified in this section, are

names of parts assigned by the manufacturer. Do not refer to the BSP number or to any information shown in parentheses.

2.04 Where the identifying number of a part is not given, it is commercial and should be obtained locally.



NOTE: UNLESS OTHERWISE SPECIFIED, ALL PART NUMBERS ARE THE WAKEFIELD COMPANY PARTS.

Fig. 2 — KS-15912, L1 Fluorescent Fixture — Partially Disassembled — Lamps Not Shown

3. REPLACEMENT PROCEDURES

3.01 List of Tools

| CODE OR SPEC NO. | DESCRIPTION |
|------------------|------------------------------|
| TOOLS | |
| — | 8-inch B Side Cutting Pliers |
| — | 4-inch E Screwdriver |

3.02 Before making any replacements except the lamps, disconnect the unit from the source of power.

3.03 No replacement procedures are specified for screws or other parts where the procedure consists of a simple operation.

3.04 Lamps

Caution: *The material coating the inside of fluorescent lamps manufactured prior to 1949 contained beryllium which is harmful if introduced into open cuts. Report even minor accidents involving fluorescent lamps containing beryllium to the medical department. However, the following safety precautions should be taken when replacing any fluorescent lamps.*

(1) Protect fluorescent lamps against accidental breakage at all times. Danger to personnel exists in:

- (a) Cuts from flying or broken glass.
- (b) Beryllium poisoning from the coating used to line the interior of some fluorescent lamps.
- (c) Mercury vapor poisoning.

(2) Store new fluorescent lamps in protective cartons.

(3) Should a fluorescent lamp be broken leave the area until dust has settled. Do **not** attempt to pick up broken parts with the bare fingers. Wear protective goggles and gloves. Keep debris wet while gathering it up and disposing of it. Mop surrounding area and dispose of cloths used. Wash hands and gloves thoroughly upon completion of operation.

(4) Do not dispose of fluorescent lamps in incinerators with other rubbish where they may be accidentally broken, or in places where unsuspecting persons (especially children) may have access to them.

(5) Lamps can be changed from above the fixture without removing either the side panels or the channel cover. To remove a lamp from a fixture, rotate the lamp 90 degrees so that the pins at each end of the lamp will slide out of the lampholders. To place a lamp in a fixture, slide the pins at each end of the lamp into the slots in the lampholders and rotate the lamp 90 degrees to lock it in position.

Caution: *When placing a lamp in a fixture, make sure that it is properly seated in the lampholders at each end of the fixture.*

3.05 Lampholders

(1) To remove a lampholder from a fixture, it will be necessary to remove the louvered channel cover and the side panel covering the side of the channel on which the lampholder is mounted. To do this proceed as follows.

- (a) Release the cover latches located on one side of the channel and adjacent to the end plates to free the cover. Then release the cover from the projections on the opposite side of the channel and remove it.
- (b) To remove a side panel, withdraw it from the top side of the fixture.
- (c) Using the 4-inch E screwdriver, remove the lampholder mounting screw and remove the lampholder from the inside of the channel. Substitute a new lampholder and connect and remount the parts in the reverse order.

3.06 Ballasts

Note: When installing a ballast, the wiring diagram appearing on the casing of the new ballast should be followed for connection in the fixture circuit.

(1) To replace a ballast, remove the channel cover as outlined in 3.05. Using the 4-inch E screwdriver, remove the ballast fastening screws. Substitute a new ballast and connect and remount the parts in the reverse order.